

Title (en)

OPTICAL FRAUD DETECTOR FOR AUTOMATED DETECTION OF FRAUD IN DIGITAL IMAGINARY-BASED AUTOMOBILE CLAIMS, AUTOMATED DAMAGE RECOGNITION, AND METHOD THEREOF

Title (de)

OPTISCHER BETRUGSDETEKTOR ZUR AUTOMATISCHEN ERKENNUNG VON BETRUG IN DIGITALEN IMAGINÄREN AUTOMOBILANSPRÜCHEN, AUTOMATISIERTE SCHADENSERKENNUNG UND VERFAHREN DAFÜR

Title (fr)

DÉTECTEUR DE FRAUDE OPTIQUE POUR DÉTECTION AUTOMATISÉE DE FRAUDE DANS DES DÉCLARATIONS D'ASSURANCE AUTOMOBILE IMAGINAIRES NUMÉRIQUES, RECONNAISSANCE AUTOMATISÉE DE DÉGATS, ET PROCÉDÉ ASSOCIÉ

Publication

**EP 4377906 A1 20240605 (EN)**

Application

**EP 22760685 A 20220729**

Priority

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- EP 2022071406 W 20220729

Abstract (en)

[origin: WO2023006974A1] Proposed is an automated automobile claims fraud detector and method for automatically evaluating validity and extent of at least one damaged object from image data and detect possible fraud, the automated automobile claims fraud detector comprising the processing steps of: (a) receiving image data comprising one or more images of at least one damaged object; (b) processing said one or more images for existing image alteration using unusual pattern identification and providing a first fraud detection; (c) processing said one or more images for fraud detection using RGB image input, wherein the RGB values are used for (i) CNN-based pre-existing damage detection, (ii) parallel CNN-based color matching, and (iii) double JPEG compression (DJCD) detection using custom CNN; (d) processing output of (i) CNN-based pre-existing damage detection, (ii) parallel CNN-based color matching, and (iii) double JPEG compression detection using custom CNN as input for ML-based fraud identifier providing a second fraud detection; and (e) generating fraud signaling output, if the first or second fraud detection indicates fraud.

IPC 8 full level

**G06V 10/764** (2022.01); **G06F 18/40** (2023.01); **G06V 10/44** (2022.01); **G06V 10/56** (2022.01); **G06V 10/82** (2022.01)

CPC (source: EP US)

**G06F 18/214** (2023.01 - EP); **G06Q 40/08** (2013.01 - US); **G06V 10/44** (2022.01 - EP); **G06V 10/56** (2022.01 - EP); **G06V 10/764** (2022.01 - EP); **G06V 10/82** (2022.01 - EP); **G06V 20/95** (2022.01 - US); **G06V 2201/08** (2022.01 - EP)

Designated contracting state (EPC)

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